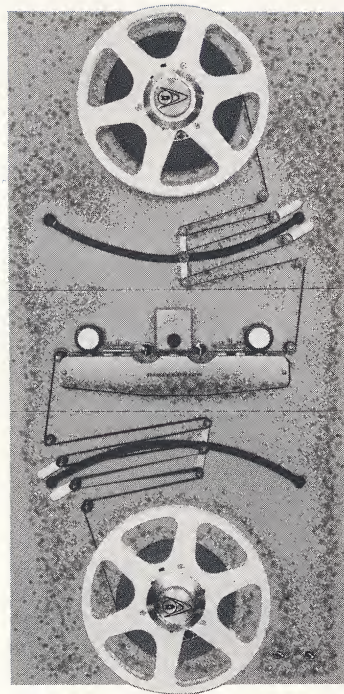


# DIGITRONICS CORPORATION

## HIGH SPEED **Bidirectional** Perforated Tape Handler



MODEL 6090



## TAPE HANDLING CHARACTERISTICS

**Tape Servo Movement:** Bidirectional.

**Tape Width:**  $\frac{1}{16}$ " to 1.0" standard 5, 6, 7 and 8 level tapes may be used interchangeably. Paper, paper mylar laminated or mylar. No adjustments are required when changing from one size reel to another.

**Type of Hubs:** Reel hubs are designed to accept standard NAB reels.

**Tape Speed (Drive):** 1000 character/second maximum. Minimum of 10 milli seconds stop time required in forward to reverse mode.

**Reel Size:** 8" or  $10\frac{1}{2}$ ", outside diameter.

**Tape Leader Required:** 84".

**Broken Tape or End of Tape Protection:** Reel motors will automatically be de-energized and power applied to reel brakes if a no tape or a broken tape condition should occur. When tape is in normal threaded path, power switch "ON" and load/ready switch is in ready position,  $-28V \pm 2$  VDC capable of supplying 100 ma will be present at terminal strip. (Unit Ready signal)

**Manual Control Functions (Front Switches):** Power on/off switch and load/ready switch both mounted on "A" section of handler.

## GENERAL CHARACTERISTICS

**Power Requirements:** 105-125 VAC 50 to 60 cycle, single phase.

**Heat Dissipation:** 550 watts.

**Operating Temperature Range:**  $0^{\circ}$ - $55^{\circ}$ C.

**Mounting Position:** Two (2) section configuration.

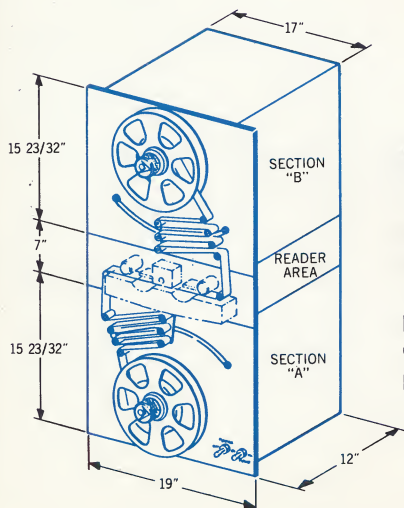
1 section mounted above reader. (B)

1 section mounted below reader. (A)

"A" section has manual control function switches.

**Weight:** Both sections—65 pounds.

**Reader Compatibility:** This unit is compatible with any of the following tape readers, at speeds to 1000 char/sec: B3000. To 800 char/sec: B3500 and 3500. To 700 char/sec: 3000.



MODEL 6090

**Mounting Dimensions:** Standard 19" wide RETMA mounting.

Thickness of front panel: #10 gauge (.1345).

Depth behind front panel: 12" maximum.

Height of front panel:  $15\frac{23}{32}$ " each unit.

Extension of panel:  $2\frac{7}{8}$ ".



*when every bit counts...*

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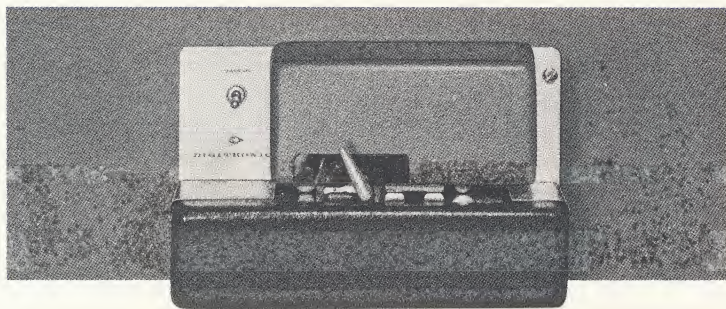
Albertson Ave., Albertson, L.I., New York Area Code 516 HT 4-1000



# DIGITRONICS CORPORATION

LOW SPEED, PHOTO ELECTRIC

## **Bidirectional Perforated Tape Reader**



MODEL B2500



## TAPE CHARACTERISTICS

**Tape Guides:** Variable three position detent action — 11/16", 7/8", or 1". Standard 5, 6, 7, or 8 level (plus sprocket) tapes may be used interchangeably.

**In-Line Loading:** 7" of leader required.

**Type of Tape:** Paper or Mylar Tape, .004 to .005 thick. Tapes with up to 40% transmissivity are acceptable. Can be adjusted to operate with tapes from .0025 to .008 thick.

**Type of Read:** Bidirectional.

**Tape Speed:** Single slewing speed at 100 or 300 characters per second. Special speeds other than 100 or 300 characters per second are available as options.

**Stop Distance:** Stops on stop character at both speeds, .020 ± .005 at 100 characters per second; .040 ± .005 at 300 characters per second.

**Pinch Roller Operate Time:** Less than 3 milliseconds.

**Stepping Characteristics:** There is no limitation for the stop to start time. Since the stepping rate varies with the stop to start time, the unit will step at any rate up to the slew speed.

## ELECTRICAL CHARACTERISTICS

**Output Voltage Levels:** Built-in sprocket gated transistor amplifiers permit driving external circuits directly at the levels described below. Amplifiers may be ungated by removing a jumper on the output connector. Amplifiers may also be gated by external signals. To inhibit the amplifier outputs, a -6 volts at 2ma signal must be applied to the proper pin of the input/output connector. A 0 volt level will allow amplifier outputs.

### OUTPUT VOLTAGE LEVELS

Perforation: -10V ± 0.5V at 5ma

No Perforation: 0V ± 0.5V at 8ma

### Start Stop Controls:

a. **DC Level Input:** Two line input required, one line for each direction. -6V (-10V, +1V) level at 2.5ma required for RUN and 0V (± 0.5V) at 0.5ma required for STOP.

b. **Pulsed Input:** In this mode of operation the reader will self-initiate a stop command upon seeing the leading edge of a sprocket hole. For this mode of operation, two contacts on the output connector must be shorted. When this is done, the reader will step to the next character when a 6 volt pulse (0V to -6V) with a minimum duration of 5 microseconds is applied to the proper pin on the input connector. For the reader to stop on the next character, the input line must return to 0 volts before seeing the leading edge of the next sprocket hole.

c. **DC Input in Pulsed Mode:** The reader will run so long as there is a -6 volt level applied at the input connector. When this -6 volt line is brought to 0 volts, the reader will stop on the next sprocket hole read.

### Manual Operating Controls:

- Power on switch.
- Tape Load Tape Width Selector.

### Connectors:

- Mating connector provided with unit for signal and controls; U. S. Component UPCC—F2HSL—23.
- Line cord supplied for AC power, three wire type BIRNBACH #347, 8' long.

## GENERAL CHARACTERISTICS

**Compatibility with Spoolers:** The reader will operate at 100 or 300 characters per second with the following spoolers:

- Model 4566 LCR Bidirectional Tape Handler. Unit will handle 8" NAB reels (650' of 4.5 mil tape).
- Model 6070 Bidirectional Tape Handler. Unit will handle 10 1/2" NAB reels (1300' of 4.5 mil tape).

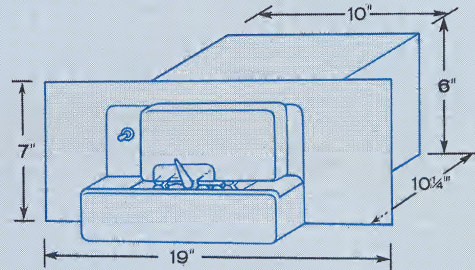
**Power Requirement:** 100 to 125 VAC, 60 cps at 1.2 amperes.

**Heat Dissipation:** 125 watts.

**Operating Temperature:** 0° to 50° Centigrade.

**Cooling:** Internally mounted fan provided.

**Mounting:** The unit is available in either case mount or rack mount.



### Dimensions:

- STOCK UNIT:** Width of Front Panel: 10". Thickness of Front Panel: 1/8". Depth behind Front Panel: 10 5/8". Height of Components behind Front Panel: 6". Width of Components behind Front Panel: 10". Height of Front Panel: 6". Extension in front of panel: 2 3/8". Weight: Approximately 15 pounds.
- RACK MOUNT ADAPTER:** Width of adapter: 19". Height of adapter: 7". Thickness of adapter: 3/8". Depth of components behind adapter: 10 1/4". Weight: 5 pounds. This rack mount adapter with standard holes will accommodate #10 screws spaced to fit a RETMA rack.
- CASE MOUNT ADAPTER:** Width of Adapter: 10". Height of adapter: 6 7/16". Depth of adapter behind front panel: 10". Height of rubber feet for adapter: 7/16". Weight: 3 pounds.

## OPTIONS

### Positive Output:

#### OUTPUT VOLTAGE LEVELS

Perforation: +10V ± 0.5V at 5ma

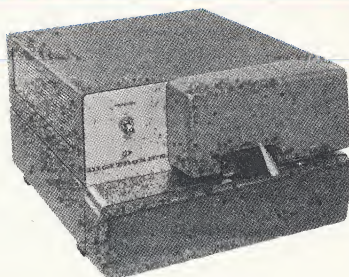
No Perforation: 0V ± 0.5V at 8ma

**High Temperature Unit:** This unit is designed to operate in an environmental temperature from 0° to 65° Centigrade. All of the solid state components in this unit are silicon. In addition, special high temperature transformers, capacitors, and drive motors are used.

**Tape Speeds:** Any special speed up to 300 characters per second is available for this unit.

**50 Cycle Operation:** 50 cycle unit will operate on a 50 cycle input line frequency.

**Tape Guides:** Fixed guides for 11/16", 7/8", or 1" tapes are available. 11/16" — 5 level (plus sprocket); 7/8" — 6 or 7 level (plus sprocket); 1" — 8 level (plus sprocket).



MODEL 2500

## Unidirectional Perforated Tape Reader

All specifications for the Model 2500 are the same as for the Model B2500 with the following exceptions:

**Type of Read:** — Unidirectional.

**Start/Stop Controls:** — DC level input: One line input, -6 volts at 2.5ma for RUN and 0 volts at 0.5ma for STOP.



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